



# RENEWABLE POWER Series

## LONG LIFE, HIGH POWERED FLOODED DESIGN FOR ALL RENEWABLE ENERGY APPLICATIONS



### Features & Benefits

- 2, 4, 6, 12, 24 & 48 Volt Units.
- High capacity pasted plates.
- Long life – 10 years plus.
- Long watering intervals - 2-6 months.
- Large electrolyte reservoir for extended watering.
- Watermiser™ flip-top vent caps.
- Large space for sediment to prevent shorting.
- 5/16" thick Poly tray for no-corrosion & easy install.
- Heat sealed cells.
- Bolted on terminals standard.
- Custom busbar assemblies available.
- Single point watering systems available.
- Custom UL Cables available that exceed NEC.

### Capacities

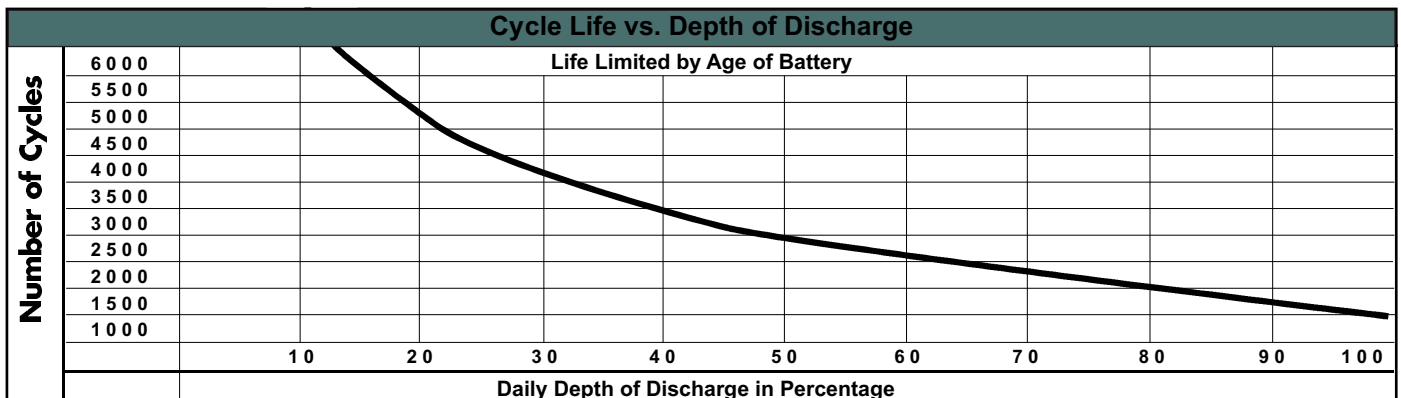
- 255 - 2400 AH @C/100 to 1.80 VPC

### Features

HDPE tray	Each cell fitted into a 5/16" thick, High Density Polyethylene tray. Corrosion free and easy to clean & maintain. The HDPE construction with handles reduces weight comparable to steel tray batteries making installation easier. Made from recycled materials.
Terminal	Heavy gauge, double hole pure lead for maximum conductivity. Other options available
Positive plate	Low antimony
Negative plate	Low antimony
Specific gravity	1.270 at 77°F (25°C) when fully charged
Self discharge	1% per week at 77°F (25°C)
Cycle life	at 15% DOD - 6000 cycles at 25% DOD - 4600 cycles at 50% DOD - 3000 cycles at 80% DOD - 2100 cycles



Cycle Life vs. Depth of Discharge





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## Electrical and Mechanical Specifications

Renewable Power 85 Plate Discharge Specifications					
Model	AH CAPACITY @77°F (25°C) to 1.80 V.P.C.				
	6 hrs	8 hrs	24 hrs	48 hrs	100 hrs
85RP-5	170	177	213	229	255
85RP-7	255	266	319	343	382
85RP-9	340	354	426	459	510
85RP-11	425	442	533	573	637
85RP-13	510	531	640	688	765
85RP-15	595	619	744	801	890
85RP-17	680	708	853	918	1020
85RP-19	765	796	960	1032	1147
85RP-21	850	885	1067	1147	1275
85RP-23	935	973	1173	1261	1402
85RP-25	1020	1062	1280	1377	1530
85RP-27	1105	1151	1386	1491	1657
85RP-29	1190	1239	1494	1606	1785
85RP-31	1275	1328	1600	1720	1912
85RP-33	1360	1416	1707	1836	2040

Renewable Power 100 Plate Discharge Specifications					
Model	AH CAPACITY @77°F (25°C) to 1.80 V.P.C.				
	6 hrs	8 hrs	24 hrs	48 hrs	100 hrs
100RP-5	200	208	250	269	300
100RP-7	300	312	375	404	450
100RP-9	400	416	500	538	600
100RP-11	500	520	625	678	750
100RP-13	600	636	750	807	900
100RP-15	700	728	875	942	1050
100RP-17	800	832	1000	1076	1200
100RP-19	900	936	1125	1210	1350
100RP-21	1000	1040	1250	1345	1500
100RP-23	1100	1144	1375	1479	1650
100RP-25	1200	1248	1500	1614	1800
100RP-27	1300	1352	1625	1750	1950
100RP-29	1400	1456	1750	1886	2100
100RP-31	1500	1560	1875	2020	2250
100RP-33	1600	1664	2000	2155	2400

## Renewable Power Series Cell Construction

### Vent Cap

Water-Miser™ flip-top vent cap simplifies and reduces watering intervals

### O-Ring Seal

Accommodates positive plate growth without cover distortion and leakage

### Post

Oversized for extra strength, minimum resistance and increased conductivity. Also Extra long for increased electrolyte volume above plates for longer watering intervals

### Positive Plate Strap

Extra heavy to ensure solid life connection between posts and plates

### Positive Grid

Designed for rigidity and maximum current capability

### Positive Plate (over .265" thick)

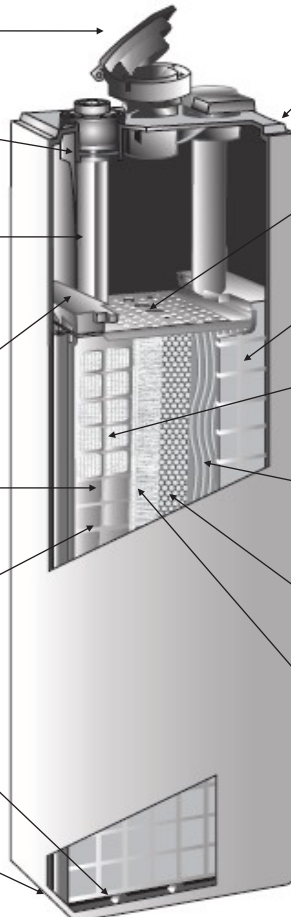
The latest in paste formulation technology enables battery to provide power, reliability and long life

### Bridge

Provides firm element support and ample sediment space (0.75") to prevent short circuits

### Bottom Shield

Plastic shields on the positive plates provide extra protection against shorting



### Cover

Heat sealed, high impact cover with lead insert bushings prevents both acid and electrolyte leaks

### Moss Shield

Retained between plates and strap which prevents shorting and not allowed to float

### Negative Plate

Strictly engineered to prevent negative active material limitation

### Verticle Mat

A fine glass fiber mat envelops the positive plate and is the first step to ensuring the integrity of the plate structure

### Seperator

Ribbed, micro-porous separators provide insulation between positive and negative plates, maximizing acid flow to positive plate and reduces internal resistance

### Koroseal

Perforated envelope encases positive plates to prevent shorts and maximizes performance

### Horizontal Mat

A glass fiber mat increases active material retention

### Electrolyte

Laboratory grade electrolyte is used. Specific gravity is balanced an 1.270 for optimum battery performance

ATLANTIC BATTERY SYSTEMS INC.

1065 Market Street, Paterson, NJ 07513 USA

Phone: (973) 523-5151 Fax: (973) 523-2344

Email: Dan@atbatsys.com